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This discussion of the sodules in an experimental computer-aided system for officer career information and planning system (OCIPS) includes the reasons for its development, a description of the seven modules, and the findings of a preliminary test of four of the modules for feasibility and credibility. Initially developed in response to a need seen by the Army for a cost-effective career planning system, the modules, in the form of interactive dialog units, provide an introduction to career planning information about officer careers, data about the process of alternate specialty designation, practice in self-understanding, and an opportunity to create long-term career goals by translating them into plans for action. The results of a field test with 52 company grade officers indicated that they found the content of the modules to be interesting, accurate, useful, and understandable. Subjects gave highly favorable ratings to the use of computers j transmitting career information. A cost-effective analysis of the system is currently in progress. (Author/MER)

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CAREER PLANNING MODULES FOR THE OFFICER CAREER INFORMATION AND PLANNING SYSTEM

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FOREWORD

Part of the research of the Personnel Utilization Technical Area of the Personnel and Training Research Laboratory of the Army Research Institute (ARI) supports effective career management for Army officers. One result of this research has been the design and field tryout of an experimental computer-based Officer Career Information and Planning System (OCIPS). This report describes the design of the system, the development of interactive modules, and the experimental use of a sample of the modules to determine accuracy, credibility, interest, and operational feasibility.

Research in career counseling and career management has been performed jointly as an in-house ARI effort and through contracts with organizations selected for their specialized expertise. The current research involving application of career counseling expertise to the A-my Officer Personnel Management System was performed under Contract DAHC 19-76-C-0030 with vocational psychologists at Teachers College of Columbia University. The research effort was directed by Bertha H. Cory under requirements of Army Project 20162717A766, Task C, Career Progression Systems, FY 1978 Work Program.

JOSEPH ZEJONER Technical Director

CAREER PLANNING MODULES FOR THE OFFICER CAREER INFORMATION AND PLANNING SYSTEM

BRIEF

Requirement:

In response to a need seen by the Army for a cost-effective career planning system which would (a) place computerized data at the disposal of both the career development manager and the officer and (b) facilitate the implementation of the Army policy of officer professional development and utilization, the Officer Career Information and Planning System (OCIPS) was designed. The report describes the design of the interactive dialogue modules to promote long-term career planning as a part of the Officer Personnel Management System (OPMS).

Procedure:

Current theory and opinion on adult career development were analyzed, adapted and extended to meet the needs of the project. Five basic concepts, considered important for the Army officer were identified: that choice is inevitable; that one should base choices on self-understanding; that not every career outcome is predictable; that planning requires a combination of commitment and tentativeness; and that life stages provide predictable changes. Attendant to these concepts, a variety of career planning skills (e.g., clarifying one's values) were identified. Interactive dialogues were designed to teach the concepts and to provide opportunity for practice in the skills.

Product:

The resulting dialogues provide: (1) an introduction of the officer to the computer (2) an introduction to the concepts of long-term career planning; (3) a comprehensive look at how the Army career system works; (4) shortened combined version of (2) and (3); (5) an opportunity to draw information from a data base on alternate specialty; (6) an exercise designed to increase the user's awareness of his/her career-relevant skills and values; and (7) practice at establishing long-term career goals.

. Four of the seven dialogues were tested for feasibility and credibility with 52 company grade officers who found the modules interesting, accurate and useful.



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Introduction

The recent identification of career planning as a salient issue for adults and the scarcity of professional assistance in that problem area has led career development specialists to seek alternative approaches to educational and career planning. One such approach is the computer-aided guidance system. A number of such systems have been developed in a variety of settings, primarily intended for use among high school and college students. The system described here is one of the first designed to enhance the career planning skills of adults whose careers are already in progress.

Adult career planning. Recognition of the need for career planning in adulthood emerged from the notion of a career as a series of positions, jobs, and occupations that extend throughout the life of the individual (Super, Crites, Hummel, Moser, Overstreet, & Warnath, 1957). This view of work life emphasizes the development of persons throughout their life span in contrast to the mere prediction of success and satisfaction from Point A (preparation and anticipation) to Point B (entry to an occupation). Buehler's (1933) concept of life stages, long considered useful by developmental psychologists, became highly relevant for vocational psychologists as well. The stages of growth, exploration, establishment, maintenance and decline bore observable relationships to the tasks which beset individuals as they imagined, prepared for, sought admission to, entered, advanced in, retired from and reflected upon their life's work. The work of Havighurst (1953) and Super (1957) has made clear the need for individuals to cope with differing problems at different stages in order that their career development proceed smoothly.

The understanding of career phenomena from a developmental framework created renewed interest in the career behavior of adults. Studies such as those by Astin and Panos (1969) and Davis (1965) carefully documented the fact that, during the college years, career-related choices were made and revised for more than half the population. The work of Cooley and Lohnes (1969), Gribbons and Lohnes (1969), and Super, Kowalski and Gotkin (1967) emphasized the fact that, beyond the college years, job and position changes were frequent, career decision making remained a persistent developmental task, and—by and large—adults continued to need help with planning their long-term futures.

This demonstrated need for career decision making during adulthood underscores the validity of the view of career decision making as a continuous fecycling of the stages of the decision-making process (Katz, 1963). Of particular importance in this process is the continuing exploration of vocational alternatives. Individuals who engage in vocational exploration undertake activities with the purpose of gathering information about themselves and their environments which will prepare them to choose, prepare for, enter, adjust to, or progress in an occupation (Jordaan, 1974). Meaningful



exploration can help the individual (1) assess the outcomes associated with various vocational alternatives, (2) assess the desirability of those outcomes, and (3) assess the probability of achieving those outcomes (Prediger, 1974). Vocational exploration is, therefore, necessary and inevitable for an individual faced with a career decision.

Applying computer technology to career guidance. To provide assistance in the problem area of long-term educational and career planning, career development specialists have sought to adapt available resources in computer technology to the specific career planning tasks. Current approaches to the use of computers in educational and vocational guidance are based on two theories (Super, 1970). First is the pragmatic theory which asserts that the more information that is available to individuals, regarding both self and world of work, the better their vocational decisions are likely to be. Second is the developmental decision-making theory which reflects the view that a career develops—and, thus, decisions are required—over the life spar, rather than as a result of specific, point—in—time, educational or vocational choices.

The technological capacity of the computer is widely recognized and has considerable potential when applied to the process of career decision making. The computer provides the capacity (1) to store, retrieve and update large amounts of data, (2) to interre ate data about individuals and their environments, (3) to individualize data to generate educational and career alternatives, (4) to simulate conversations of interviews through interactive terminal devices, (5) to modify user behavior to provide feedback, review and personalized assistance to counselor or client, (6) to control and coordinate audio and visual material with text, and (7) to provide services to many users simultaneously in various settings (Harris & Tiedeman, 1974). By making use of these capabilities, carear development specialists have been able to provide the needed assistance to individuals at their different developmental stages in terms of information gathering, vocational exploration, and career decision making.

Several computer-aided counseling and guidance systems are currently in operation. The Computerized Vocational Information System (Harris, 1968), the Education and Career Exploration System (Minor, Myers & Super, 1969), Oregon's Career Information System (McKinlay, 1974), and DISCOVER (Rayman & Harris-Bowlsbey, 1977) are examples of systems developed for use with high school populations. Another, the System for Interactive Guidance and Information, developed by Katz and his associates, has been designed for use with college students (Katz, Chapman, & Godwin, 1972).

The effects of these systems have been studied and, in general, the results have been encouraging. Although no studies have yet demonstrated that the systems have been effective in improving the users' decision-making skills, other relevant skills have been measurably enhanced. Specifically, as a result of using computer-aided counseling and guidance systems, users increased their vocational maturity (Myers, Thompson, Lindeman, Super, Patrick, & Friel, 1972); users achieved more specificity of information about educational and vocational alternatives, showed greater crystallization of vocational



planning, and gained more information about career alternatives (Harris, 1972); and users indicated that they learned to operate them easily, did not feel dehumanized by their use, and enjoyed using them (Myers, et al., 1972).

The computer-aided counseling and guidance systems that are currently in operation, however, were developed primarily for use among high school and college students. Recognizing the potential of a system intended specifically for an adult population, the Army Research Institute began the development of an Officer Career Information and Planning System (OCIPS) which is designed to utilize knowledge of adult career planning and existing computer technology to further the professional development of Army officers.

The Officer Career Information and Planning System (OCIPS)

OCIPS is being developed in response to a need seen by the Army for a cost-effective career planning system which (a) would place computerized data at the disposal of both the career development manager and the officer and (b) would facilitate the implementation of the Army policy of officer professional development and utilization as expressed in DA Pamphlet 600-3. Prior to the initiation of the project, several legitimate complaints on the part of officers had been recognized. These included, specifically, the lack of readily available, consistent, complete, and current information regarding the officer career progression system. There was also evidence to suggest that better use of officer interests and abilities was possible and that inefficient officer career decisions were being made (Macpherson, Note 11; Macpherson, Eastman, & Yates, Note 12).

Drawing on theory and research in counseling psychology and technologies in computer science, OCIPS is envisioned as a computer-aided career information and planning system for Army officers (Cairo, Note 1; Cory, Medland, & Unlaner, Note 3; Cory, Medland, Hicks, Castelnovo, Weldon, Hoffer, & Myers, Note 2; Van Nostrand, Note 19). It is hoped that this system will provide a number of benefits to the Army officer and to Army management, including:

- --greater ability of an officer to take responsibility for his or her own career decision making;
- --greater officer satisfaction and increased knowledge of the career-enhancing, potentialities of various assignments;
- --better fit of officer-to-job based on the consideration of aptitudes, values, interests, education, training, and experiences; and
- -- greater equity and efficiency in the career management system.
- --greater opportunity for career managers to concentrate on counselor functions.

In order to begin to accomplish these goals, the initial phase of the system's development, described in this report, called for a long-range



career planning dialogue unit that would enable Army officers to explore planning strategies and decision-making techniques and to develop and apply career goals and values to their own long-term career planning. It was decided that the system would need to conform to a number of specifications. First, the dialogue units should allow the officer to explore career-related values and strategies for implementing those values. The units should advocate flexibility in career planning and be applicable to Army careers. Second, the dialogues should appear as a natural conversation between an officer and a human counselor, using explicit, concise language tailored to Army officer background and interests. Finally, the dialogues should be designed to increase the officer's awareness of the notion of a career as a time-ordered sequence of positions, mediated partly by his or her own choices.

Conceptual Development

From these objectives and specifications, the team at Teachers College, Columbia University, directed by Roger A. Myers, proposed to create a set of computer-aided experiences for teaching various career planning concepts and for enhancing career-relevant competencies. The specific concepts, on which the long-term career planning portion of the system is based, are those that emerged from Super's (1957) longitudinal study of career development. The concepts represent those notions that research has shown to be essential for consideration in career planning. They are:

- 1. The inevitability of choice: stressing the opportunity and obligation on the part of an individual to make certain choices, and reviewing the consequences of not choosing when choice is indicated;
- Choice as an implementation of values: introducing the notion that the major determinant of any given choice ought to be the values of the chooser, necessitating some clarity about one's own value system;
- 3. <u>Contingencies and discontinuities</u>: making explicit the implicitly obvious existence and influence of events that one is unable to predict;
- 4. Clarity and tentativeness: illustrating the necessity of having clear, well-designed plans, while simultaneously recognizing the unavoidable tentative nature of such plans; and
- 5. <u>Life stages</u>: focussing on the available knowledge of career-related behavior at different points in an individual's development.

Such research has also shown that certain competencies in career planning tasks must be developed in order to negotiate a career successfully. Drawing on this body of knowlege, the proposed system was to include exercises in the following areas:



Skills and values clarification. An officer's skills and yalues are major determinants of career satisfaction and success. Accordingly, the ability to identify these primary skills and values is important to career development. This ability has other important components:

(a) recognizing and resolving conflicts among values and skills; (b) recognizing the linkage between specific values and skills and career decisions; and (c) preparing for possible revisions of the primary skills and values throughout one's career.

Career strategies. Career planning requires the ability to translate self-and-environment knowledge into planful action. The components of this are: (a) interpreting life goals in light of one's primary values and skills; (b) developing life goals that are optimally enhancing for career development; (c) harmonizing conflicting goals; and (d) developing action plans for reaching specific objectives. Overall, "career strategies" means the ability to implement one's primary values and skills in specific, concrete actions.

Choice point identification. In a complex career system, it is important to be able to identify those points where one can choose and where that choice can make a significant difference. This includes the ability to anticipate future choices, to evaluate present choice alternatives, and to assess the irreversibility of specific choices.

Career monitoring. Assessing career progress is important in view of the tentative nature of career planning. Assessment requires a systematic way of continually integrating the career environment with one's primary values and skills.

The original plan for the system envisioned two forty-minute interactive dialogue units. The first of these was to be a didactic unit designed to teach and illustrate concepts about career planning. The other was to be an informational unit describing the officer career progression system in which the user would be implementing those concepts. This plan was subsequently expanded to provide additional emphasis on actual career planning tasks. Strategies for implementing one's interests and for negotiating a career throughout the life span were to be illustrated in a game mode, using individual officers' profiles and predictable events that occur in an efficer's career.

To supplement the two-module plan, then, the developmental effort was redirected to provide a more complete guide to career planning. Each component was designed to address a major consideration in career planning, and the entire system was intended to mirror the career planning and decision making process:



After the officer is instructed as to how to use the terminal (with a module called SIGNON), the initial didactic module (now called FORESIGHT) provides an introduction to the decision-making process; the informational module (called OVERVIEW) describes the occupational environment and opportunity structure in which the officers operate; a SELF-ASSESSMENT module helps users to describe themselves in relation to that environment. Data banks (such as that used by ALTERNATE SPECIALTY, a submodule of OVERVIEW, Fields, Note 7) allow them to explore the "fit" of the various alternatives of the environment given their own descriptions; and the final module (called CAREER STRATEGIES) guides the users in integrating previous information to make choices, implement decisions, and evaluate career progress.

System Description

The current system consists of interactive, or conversational, dialogue units. The user's path through the units is determined by his or her responses to questions or by selection from among alternatives posed at several choice points within each unit. (Examples are provided in Appendices A through E.) Each module is self-contained and connects with the other modules via an exacutive monitoring system. At present, SIGNON, FORESIGHT, OVERVIEW, and ALTERNATE SPECIALTY have been programmed and are useable in demonstration form. The remaining modules—CAPTAIN'S INTRODUCTION, SELF-ASSESSMENT, and CAREER STRATEGIES—are in script form but have not yet been programmed. The various modules are described below.

SIGNON. This introductory module introduces the officer to the system, instructs the officer as to now to use the terminal, and asks for a variety of identifying data such as military specialty, type and level of civilian education, and current military status (See Appendix A).

FORESIGHT. This module is designed to introduce the user to long-term career planning. It begins with consideration of the belief that individuals can influence their career progress if (a) they know what they want, and (b) they know how the system works. The basic career concepts described earlier are assigned code names: "Must"--choice is inevitable; "Value"--you have to know what you want; "Surprise"--unexpected events happen even if you plan; "Tension"--simultaneously firm and tentative planning; and "Stage"-- predictable life changes. The user may elect to look through any or all of the five- or six-frame interactive explanatory illustrations for each concept. The conclusion of the module integrates the concepts in a sample career path that shows an officer making choices and confronting situational changes at different stages in his career. The ability to convey to the user the most current available knowledge about career planning and career development in an understandable and thought-provoking manner is the most outstanding quality of the FORESIGHT module. (See Appendix B for an excerpt from FORESIGHT.)

OVERVIEW. This informational module includes the Army's overall plan for the progression of an officer's career and attempts to make the user aware of those factors which can influence the ways in which an officer's career devenops. These include:



- --changes in needs, goals, and objectives of the Army
- --military and technological changes
- o -- timing of career decisions
 - --Officer Evaluation Reports
 - --military education
 - --alternate specialty assignment
 - --civilian education and training

It dissects the patterns and determinants of Army careers with the use of a eries of off-line charts and offers the user answers to a series of the cly-asked question. It reinforces the concepts introduced in FORESIGHT adds some Army-specific concepts such as officer responsibility and dimensions of utilization and training. OVERVIEW facilitates the officer's comprehension of "how the system works"—a necessary ingredient in career decision making—and does so in a manner that enables officers to incorporate the understanding of the complex officer career progression system into their planning. (See Appendix C for an excerpt from OVERVIEW.)

CAPTAIN'S INTRODUCTION. Experience with the system has shown that, while younger officers (lieutenants) profit from FORESIGHT and OVERVIEW, officers who have achieved the rank of captain or above have already acquired much of the information contained in the modules. Therefore a substitute introductory module was designed for users already familiar with the Army Career Progression system. This module, called CAPTAIN'S INTRODUCTION, includes the information in FORESIGHT and OVERVIEW in a more abbreviated form (See Appendix D).

ALTERNATE SPECIALTY. One of the system's long-range objectives is to provide the user with access to data relevant to important choice points in an Army officer's career. The submodule of OVERVIEW and CAREER STRATEGIES, cal! - . TERNATE SPECIALTY, is an example of how this can be done. Due to the implem tation of dual occupational specialties for Army officers, expressing a preference for an alternate specialty is a critical choice point in an officer's career. A rich data file relating officer characteristics and preferences to alternate specialty designation affords the user a unique opportunity to engage in meaningful career exploration. The ALTERNATE SPECIALTY submodule was developed to make use of this data file and includes information about the alternate specialties that are available, how they are designated, and how career plans can influence them. In making the data available to the user and in offering suggestions about useful ways to interpret them, the submodule provides the officer with the opportunity to explore and compare his or her characteristics with those of officers for whom any given specialty was designated during the previous year and to integrate this information into an effective career strategy (See Appendix E).

SELF-ASSESSMENT. Other modules (OVERVIEW and ALTERNATE SPECIALTY) have addressed the issue of "how the system works." The SELF-ASSESSMENT module is designed to help users clarify "what they want"—a necessary component of satisfactory career plan.ing. The officer uses a representative list of skills and values to create an individualized profile based on preference and performance (skills), and subjective importance (values). The list of skills



was derived from an analysis of Army officer job performance dimensions (Oliver, Note 80 and available inventories of relevant career skills (Haldane, 1974, Katz, Chapman & Godwin, 1972). Similarly, the values list represents a combination of work value inventories (Super, 1968; Katz, Chapman & Godwin, 1972), lists of values used in industrial personnel development programs, and values derived from Army Research Institute surveys. Once the officer has created a profile, suggestions are offered about integrating self-assessment into ρlanning and the user is asked to evaluate previous and anticipated assignments in light of this profile. (See Appendix F for an excerpt from SELF-ASSESSMENT.)

<u>CAREER STRATEGIES</u>. This module is designed to help officers implement their career aspirations through exercises in setting long-term goals and in translating goals into action plans for immediate objectives. The introduction conveys to the officer:

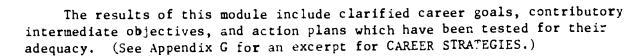
- -- that goals provide the basis for long-term planning;
- -- that goals are arrived at by assessing the structure of Army career opportunities and by assessing one's own characteristics;
- --that long-term goals can only be obtained by achieving intermediate objectives; and
- --that concrete plans of achieving intermediate objectives provide the link between career planning and intelligent action.

The process of creating a career strategy is introduced by the use of a career planning game ("SCOR") which incorporates the major aspects of an officer's career: military specialties, education and training, skills, job performance, rank, contribution, assignments, family, and values. The game uses an off-line playing board ("SCOR-BOARD") for charting hypothical career progression. The decision points in the game require the player to deal with four career issues: the inevitability of Surprise, the necessity of Choice, the awareness of Opportunities, and knowledge of Requirements. The player starts the game as a second lieutenant, selects pre-programmed goals, six ks to move toward those goals in a series of computer maged decisions, and are at an end point that signifies goal achievement.

At the conclusion of the game, the principles of creating career strategies are reviewed and the user is presented with the "Career Planning Wheel." This offline chart is similar to the SCOR-BOARD, but depicts the major aspects of an officer's career in more detail. The user may access computer-based career data related to the year of commissioned service in each aspect of the wheel.

After the SCOR game and the Career Planning Wheel have illustrated the use of career strategies and career information, the user is asked to review his or her own career goals. Each goal is examined with a series of eight criteria for effective career planning goals and is revised until it satisfies the criteria. The revised goals are then translated into action plans for intermediate objectives. For example, users are guided to convert goals to actions by choosing a specific standard for gauging success, identifying resources and barriers, setting checkpoints and deadlines, and so on.





System Evaluation

In order to assess potential operating difficulties and to obtain some initial reactions to the acceptability and usefulness to the target population, four of the seven modules (SIGNON, FORESIGHT, OVERVIEW, and ALTERNATE SPECIALTY) were field-tested on 52 company grade officers at Ft. Benning, Georgia (Oliver & Day, Note 18). Each officer was administered a pre- and post-use instrument measuring: knowledge of relevant information, attitude toward the computer as a guidance tool; and the understandability, accuracy and usefulness of each module. A post-use debriefing session was also conducted.

The results of the field trial were extremely encouraging. The users found the content of the modules to be interesting, accurate, useful, and understandable and gave highly favorable ratings to the use of the computer as a method of transmitting career information. Those officers who used the system reported a decreased need for career information and an increased level of certainty and satisfaction with alternate specialty preference. It was also found that the style and the humor of the text were considered appropriate and enjoyable.

Although no major revisions were indicated by the field trial, several adaptations and expansions of the system have since been suggested. Designed primarily for the use of company grade officers (those who have fewer than eight years commissioned service), OCIPS could well be adapted for use by field grade officers, including particularly those wno had used the system in their years as junior officers. Other potential users are those who are involved in officer career management (Hadley, Marsh, & Korotkin, Note 10). Alternative entry modules, similar to the CAPTAIN'S INTRODUCTION, would introduce such personnel to the system. Proposed content expansions include a module dealing with the career planning and decision making necessary upon severance from military service. Expanded data bases could add information about military and civilian education and extended longitudinal data relating alternate specialty designation and other career events to later career paths (Fields, Notes 7, 8, 9). The system is also capable of administering and scoring assessment instruments and could be equipped with the capacity to monitor and store patterns of system use for research and re-evaluation.

The Officer Career Information and Planning System currently exists in the first generation phase of development. Those components which have been tested in the field work well and are acceptable to the target population, however adaptations and changes are required. CAREER STRATEGIES requires additional data and dialogues for full operation. OCIPS has demonstrated potential for expanded operations; further field testing and subsequent revision are indicated as the next phase of development. A cost-benefit analysis of the system is in progress.



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Appendix A

Excerpt from SICNON

This module introduces the user to the system, provides instruction for using the terminal, and asks the user for identifying data.

THE SYSTEM YOU ARE ABOUT TO SEE IS AN EXPERIMENTAL ONE. THE 'OFFICER CAREER INFORMATION & PLANNING SYSTEM' IS IN A DEVFLOPMENTAL STAGE AND WILL PROBABLY UNDERGO CONSIDERABLE MODIFICATION BEFORE IT IS REALY FOR OPERATIONAL USE. WE APPRECIATE YOUR PARTICIPATION IN EVALUATING THE SYSTEM DURING THIS EXPERIMENTAL TRYOUT.

(ALWAYS PRESS THE 'NEW LINE' KEY WHEN YOU ARE READY TO CONTINUE)

FIG. FOUR CODE IS 01. PERHAPS YOU SHOULD JOT IT DOWN SOMEWHERE SO YOU WON'T FORGET IT.

PLEASE TYPE THE SPECIALTY CODE NUMBER OF YOUR PRIMARY SPECIALTY. (FOR EXAMPLE: 11 FOR INFANTRY) SPECIALTY CODE NUMBERS CAN BE FOUND ON PAGE 1 OF THE OFFICER CAREER INFORMATION AND PLANNING SYSTEM HANDBOOK, WHICH IS LOCATED NEAR THIS TERMINAL.

50.00. NOW LET'S FIND OUT ABOUT YOUR CIVILIAN EDUCATION. TYPE THE NUMBER WHICH CORRESPONDS MOST LOSELY WITH THE AMOUNT OF EDUCATION YOU HAVE.

- 1. DOCTORAL DEGREE
- 2. MASTER'S DEGREE
- 3 PROFESSIONAL DEGREE (MD, DDS, LLB, ETC.)
- .. YEAR OR MORE OF POSTGRADUATE EDUCATION
- 5. OLLEGE TRADUATE
- 5 TWO OR MORE YEARS OF COLLEGE (BUT LESS THAN A BACHELOR'S DEGREE)
- LESS THAN TWO YEARS OF COLLEGE
- 3. 41GH SCHOOL GRADUATE (OR LESS)

-K. JOW FOR YOUR UNDERGRADUATE MAJOR. IF YOU DO NOT HAVE AN UNDERGRADUATE MAJOR, SELECT A GENERAL CATEGORY WHICH YOU FEEL WOULD BE MOST APPROPRIATE FOR YOU.

- A. HUMANITIES
- 8. BUSINESS
- . FYGINEEDING
- J. PHYSICAL SCIENCES
- E DOCIAL SCIENCES
- F. 1.W

Appendix B

Excerpt from FORESIGHT

The user has "signed on" to the system, and, given a description of what the module contains, has opted to explore FORESIGHT further. The following frames are presented on the screen:

2 TAKE , LOGE AT THESE TWO STATEMENTS 1 - IF YOU KNOW NOW TO DO IT, YOU CAR GET EXACTLY HAT ISU WAST OUT OF YOUR APMY CAREED. 2 - NITHING YOU TRY TO DO CAN POSSIBLY IMPLUENCE WHAT MAPPENS TO YOUR ARMY CAPEER. WEAT IS YOUR "EACTION TO THESE STATEMENTS! A - 1 IS THUE, 2 IS NOT B - 2 IS TOWE, 1 IS NOT C - TEITHER IS THUE D - BOTH ARE THUE AE WE SEE IT, TEITHEF IS THUE ABSOLUTELY, BUT BOTH EAVE ELEMENTS OF TRUTE. THAT LEADS TO A CONSIDERATION OF THE BELLETS US WELCH FIREFISHT RESTS. O.K. MAYBE THE WORD "POWERFUL" MAKES IT HARD FOR YOU TO AUREE. EVEN THOUGH THESE HELLEPS ARE NOT YOURS AT PRESENT, BEAR IN WIND THAT PORESIGNT IS BASED ON THESE BELLETS. SERI THE ARE "C" EXEPTICAL OR NOT, WOULD YOU LIKE TO LEARN HORE ABOUT YOU LAR HAVE A POWERFUL INFLLMENCE OR YOUR LONG-TERM "D" FORESIGHT? **₩** "E" --YOU CHON WHAT YOU WANT, AND --YOU WHON BOW THE SYSTEM WORKS. A - YES OPTION -BAT'S YOUR REACTION TO THAT? STRONGLY AGREE ACREE BCTPTATE DISAGNET "A" or "B" OPTION "B" OPTION "A" OPTION HOLD THE VEXT STEP IN JAITING TO CHON WHAT POPESIGHT IS ABOUT INVOLVES BRINGING INTO FOCUS DERTAIN IDEAS CRUCT CAREER PRANKING THESE CORS ARE CALLED BASIC CLOSES ARE THE THEY ARE (Exit from this section) -- UTING INCICES IS INEVITABLE MUST - REEN TO MAKE INDICES, YOU HAVE TO CHOW WHAT YOU HAT YOU HAT YOU **-UNEXPECTED THISUS HAPPEN TO A CAREER, HE MATTER HEW TAREPULLY WE PLANS (SUMPRISE)
-- decause to the Law Predict the future, the must be able to be both firm and tentative simultaneously the control of the con THE PRESISTABLE STAGES Each option is presented in the order indicated by the user.

ERIC Full Text Provided by ERIC

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*... -

Excerpt from OVERVIEW

The introductory section of OVERVIEW stresses the complexity of the Army Officer career structure and encourages users to consult additional sources of information for details beyond the scope of OVERVIEW. The following excerpt introduces the user to the offline charts (included here) and begins the explanation and discussion of the career structure.

AS WE SAID, THE ABOY OFFICER CAREER STRUCTURE IS VERY COMPLICATED SO WE WILL TALK ABOUT THIS STRUCTURE, WILL POLYT AT A TIPLE, WITH THE HELP OF A SERIES OF

EACH CHART PRESENTS ONE IDEA, THEN THE MEXT CHART ADDS ANOTHER IDEA.

ALONG THE WAY, WE WILL SUMMARIZE OUR IDEAS AND GIVE SCHE ELAPLES.

ALSO, AT THE END OF THIS SECTION, WE WILL ANSWER SEVERAL JUESTICES IN MORE DETAIL

JUR GOAL WERE IS TO HELP YOU GET ONE BIG PICTURE OF HOW YOUR CAREER MAY DEVELOP

PLEASE TURN TO CHART #1 OF THE HANDBOOK, ON PAGE 6

CKAY YOU'RE NOW LOCKING AT OFFICER PROPESSIONAL CEVELOPIENT (OPD) CHART #1.

THE LEGEND AT THE BOTTON RIGHT OF THE CHART EXPLAINS THE SCALE.

THE IDEA HERE IS SDUPLE. THERE IS A SPAN OF TIME IN WHICH A TYPICAL OFFICER CAN EXPECT TO REACH A CERTAIN TADE AND HE MUST REACH THAT GRADE BY A CERTAIN TIME, IN ORDER TO REMAIN IN SERVICE

SUPPOSE MAJOR ADAMS WAS FROMOTED TO LT. COLONEL AT HIS 13TH YEAR OF COMMISSIONED SERVICE WAS THE PROMOTION

- SELOW THE ZONE AT THE ZONE ABOVE THE ZONE

"A" or "C" OPTION

"B" OPTION

MAJOR ADAM'S PROMOTION TO LT COLONEL WAS RIGHT AT THE ZONE FOR LT COLONELS, SINCE THE ZONE POINT FOR LT COLONELS, MARKED BY A STAR, COMES AT THE 1 JTH YEAR

READY FOR THE SEXT IDEA?

- DEPENDS OF THE IDEA. BUT FIRE AWAY.

RIGHT. MAJOR ADAM'S PROMOTION TO LT. COLCRET WAS RIGHT AT THE ZONE FOR LT. COLONELS, SINCE THE ZONE POINT, MARKED BY A STAR, COMES AT THE 13TH YEAR.

READY FOR THE NEXT IDEA?

- CEPENTS OF THE IDEA BUT FIRE AWAY.

"A" or "B" OPTION "A" or "B" OPTION

LUCE LOCK AT OPO CHART #2, PAGE 7, FOR OUR MEXT POINT

TE CHART REFRECENTS THE TWO MAJOR FARTS TO EVERY FF (JEP'S JAPER (EVEL PARTY VERTICAL SUMENSION) AND TRICKING MOREGORYAL SIMENSION.

TAY 1. THEM IS WHEN YOUR ASSIGNMENTS PRIMAPILY HAVE THE GRAD TO THEMPROVING YOUR SKILLD AND EDUCATION, TO MEET THE LEMY'S MEETS IN THE PUTURE

TIMIGATION MEANS MEETING PRESENT ARMY WEEDS BY DRAWING HERB PILLS YOU ALREADY LAVE

CONTINUED --ON NEXT PAGE

LOOKING AT THE CHART, WHAT CAN WE SAY!

- A OFFICER #1 DEVELOPED MORE SKILLS THAN DID OFFICER #2.
- 5 OFFICER #2, OVERALL, PROBABLY CONTRIBUTED MORE TO THE ABOY'S REEDS.
- B OFFICER #1'S CAREER DUPHASIZED DEVELOPMENT OF SKILLS, MORE SO THAN DID THE CAREER OF OFFICER #2.

"A" or "C" OPTION

"B" OFTION

WHILE WE CANNOT SAY THAT ONE OFFICER DEVELOPED PURTHER, OR THAT ANOTHER OFFICER CONTRIBUTED MORE, WE CAN SAY THAT ASSIGNMENTS HAY STRESS MEETING PRESENT ARMY NEEDS (OFFICER #2) OR MAY BE DESIGNED TO DEVELOP AN OFFICER #3 SKILLS FOR LATER CONTRIBUTIONS (OFFICER #1).

BOTH ENTHAGES ARE VITAL FOR AN EFFECTIVE ARMY.

RIGHT.

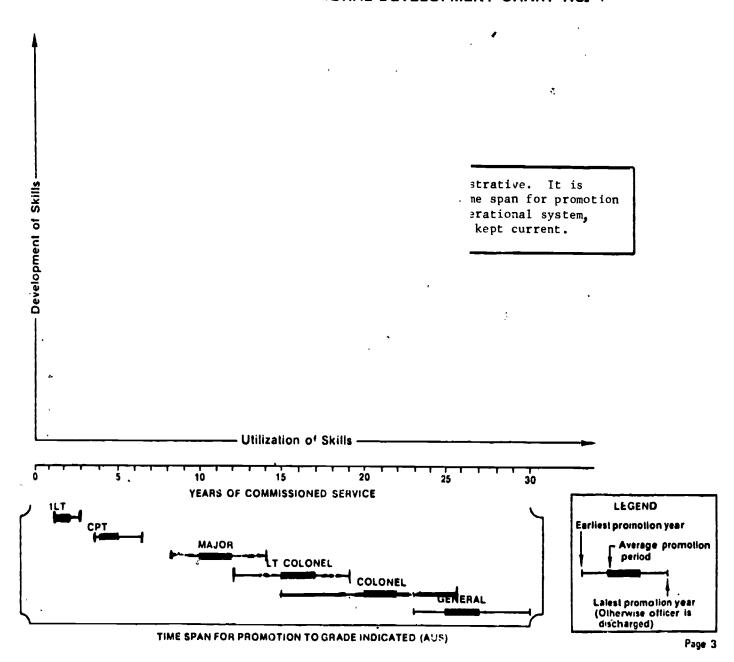
WE CANNOT SAY THAT ONE OFFICER DEVELOPED FURTHER.

OR THAT ANOTHER OFFICER CONTRIBUTED MORE. WE
CAN SAY THAT ASSIGNMENTS MAY STRESS MEETING PRESENT
ARMY NEEDS (OFFICER #2) OR MAY SE DESIGNED TO
DEVELOP AN OFFICER'S SKILLS FOR LATER CONTRIBUTIONS
(OFFICER #1).

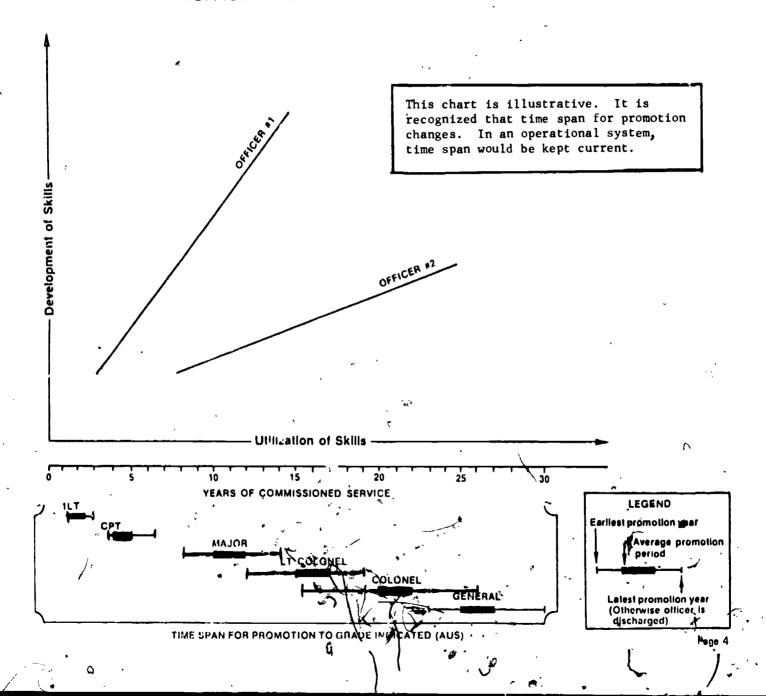
BOTH ENTHASES ARE VITAL FOR AN EFFECTIVE ARMY.

At this point in the module, the computer continues on to present further concepts and illustrations of the career structure, using the remaining charts in the off-line series.





OFFICER PROFESSIONAL DEVELOPMENT CHART NO. 2



Appendix C, continued

Appendix D

Excerpt from CAPTAINS INTRODUCTION

This module provides the user with an abbreviated version of FORESIGHT and OVERVIEW.

THE OFFICER CAREER INFORMATION AND PLANNING SYSTEM (OCIPS) IS DESIGNED TO HELP YOU WITH LONG-TERM CAREER PLANNING. IT IS MADE UP OF FIVE SEPARATE MODULES....

- --FORESIGHT....DEALS WITH BASIC CONCEPTS OF CAREER PLANNING
- --SELF ASSESSMENT....HELPS YOU CREATE A PROFILE BASED ON YOUR RATINGS OF YOUR SKILLS AND VALUES.
- --ALTERNATE SPECIALTY....INCLUDES INFORMATION AND DATA ON ALTERNATE SPECIALTIES.
- --OVERVIEW.... LEALS WITH THE ARMY'S OVERALL PLAN FOR THE PROGRESSION OF AN OFFICER'S CAREER, INCLUDING THE FACTORS THAT INFLUENCE THE WAY IT DEVELOPS.
- --CAREER STRATEGIES....HELPS YOU SET GOALS AND DEVELOP ACTION PLANS FOR ACHIEVING THESE GOALS.

AT THIS POINT IN YOUR ARMY CAREER YOU MAY ALREADY BE ACQUAINTED WITH MANY OF THE CONCEPTS THAT ARE PRESENTED IN FORESIGHT AND OVERVIEW.

THEREFORE WE'D LIKE TO GIVE YOU THE CHOICE TO BEGIN WHERE YOU THINK IS MOST SUITABLE FOR YOUR EXPERIENCE AND INTERESTS. YOU MAY BEGIN WITH EITHER THE FULL FORESIGHT OR WITH A CONDENSED VERSION THAT HIGHLIGHTS THE CONCEPTS AND LEAVES OFF THE EXAMPLES. CHOOSE ONE:

- A: I'D LIKE TO START WITH THE FULL FORESIGHT
- B: " " CONDENSED FORM.
- C: SKIP IT. LET'S GO ON TO ALTERNATE SPECIALTY.

PTION B

IN GETTING TO KNOW WHAT FORESIGHT IS ABOUT INVOLVES BRINGING INTO FOCUS CERTAIN IDEAS ABOUT CARFER PLANNING. THESE IDEAS ARE CALLED "BASIC CONCEPTS". HERE THEY ARE:

- -- MAKING CHOICE IS INEVITABLE (MUST)
- --IN ORDER TO MAKE CHOICES, YOU HAVE TO KNOW WHAT YOU WANT (VALUE)
- --UNEXPECTED THINGS HAPPEN TO A GAREER, NO MATTER HOW CAREFULLY ONE PLANS (SURPRISE)
- --BECAUSE NO ONE CAN PREDICT .HE FUTURE, ONE MUST BE ABLE TO BE BOTH FIRM AND TENTATIVE SIMULTANEOUSLY (TENSION)
- --A5 LIFE PROGRESSES, PEOPLE CHANGE; SOME OF THE CHANGES ARE PREDICTABLE (STAGE)

WHICH CONCEPT WOLLD YOU LIKE TO LOOK AT EIRST?

- A MIST
- D TENSION
- B VALCE
- E STACE
- C SURPRISE



Appendix E

Excerpts from Alternate Specialty

This module provides the user with data about the designation of Alternate Specialties in years past and offers suggestions about how to incorporate such data into one's own planning for expressing an Alternate Specialty preference.

WHICH OF THE FOLLOWING IS TRUE?

- A. AN ALTERNATE SPECIALTY IS A SPECIALTY IN ADDITION TO YOUR P MARY, DESIGNATED FOR YOUR PROFESSIONAL DEVELOPMENT AND UTILIZATION.
- B. AN ALTERNATE SPECIALTY IS A SPECIALTY WHICH TAKES THE PLACE OF YOUR PRIMARY AFTER YOUR FIRST SIX TO EIGHT YEARS IN THE ARMY.
- C. AN ALTERNATE SPECIALTY IS WHAT YOU GET WHEN THE COOK HAS RUN OUT OF PRIMARIES.

OPTION A

RIGHT' LIKE A PRIMARY SPECIALTY, AN ALTERNATE SPECIALTY IS A SEPARATE GROUPING OF DUTY POSITIONS HAVING SIMILAR SKILL AND JOB REQUIREMENTS.

e noitao

NOT REALLY. AN ALTERNATE SPECIALTY DOES NOT REPLACE YOUR PRIMARY. IT IS A SEPARATE GROUPING OF DUTY POSITIONS HAVING SIMILAR SKILL AND JOB REQUIREMENTS,

OPTION C

 Ψ

NO. EITHER YOU HAVE A SENSE OF HUMOR OR YOU DON'T KNOW VERY MUCH ABOUT ALTERNATE SPECIALTIES.

Officer Preferences. How many wanted what they got

NEXT IS A LIST OF SOME ALTERNATE SPECIALTIES. BESIDE EACH ONE ARE THE PERCENTAGES OF OFFICERS ENTERING THAT SPECIALTY WHO LISTED IT AS THEIR FIRST, SECOND, THIRD, FOURTH, OR FIFTH CHOICE.

FOR EXAMPLE, OF THOSE ENTERING ATOMIC ENERGY, 50% HAD LISTED IT AS THEIR FIRST CHOICE, 25% AS THEIR SECOND CHOICE, 5% AS THEIR THIRD CHOICE, 7% AS THE FOURTH, NONE AS THEIR FIFTH. AND 13% HAD LISTED IT AS THEIR SIXTH CHOICE OR NOT AT ALL.

ALTERNATE SPECIALTY	1	2	3	4	5	Other
Personnel Management	39%	20%	10%	6%	3%	22%
OR/SA	51	22	5	2	1	19
ATOMIC ENERGY	50	25	Ś	7	ó	1.
R × D	43	21	8	5	ĺ	22

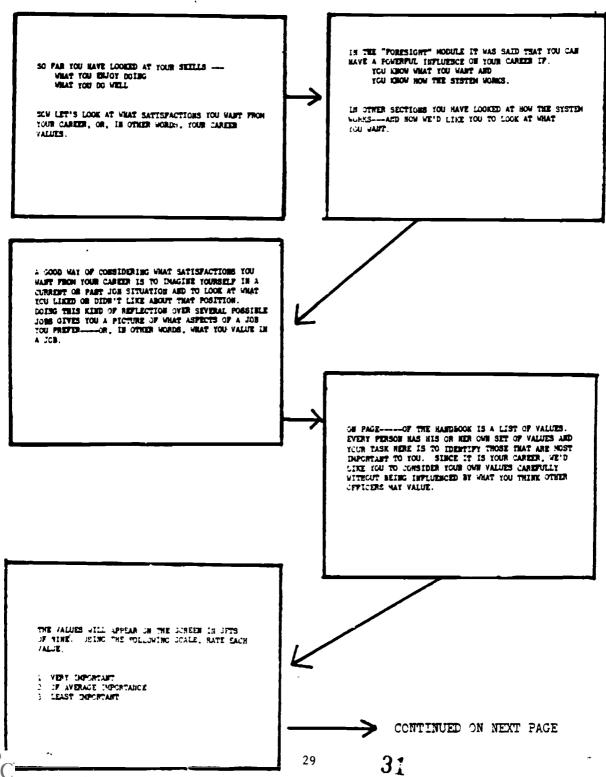


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Appendix F

Excerpt from SELF ASSESSMENT

The following frames are drawn from values assessment section of the SELF ASSESSMENT module. Prior to viewing this sequence, the user has considered the concept of self-assessment as a career planning tool and has evaluated his or her skills on the basis of preference and performance.



<u> </u>		
LEADERSHIP ASSOCIATES HELPING OTHERS SUPERVISORY RELATIONS AUVENTURE, RISK, EXCITENCE VARIETY SELF-IMPROVEMENT ACRIEVIMENT CREATIVITY	1. VERY INFORTANT 2. CF AVERAGE INFORTANCE 3. LEAST INFORTANT	
USE OF SKILLS PRESTICE SURROUNDINGS SECURITY LEISURE PHYSICAL ACTIVITY MONEY	1. VERY DOPORTANT 2. OF AVERAGE DOPORTANCE 3. LEAST DOPORTANT	
RELIGION RELIGION RELIGION MCST DEPORTANT HULPTING O'NEE VARIETY SELF-DEPOVEMENT ACRIEVE GET CPEATIVITY VONEY USE OF 3KIT SECURITY SECURITY SECURITY	ME OUT. PORTANCE LEAST IMPORTANT ADVENTURE, RISK, EXCITEMENT Y RELATIONS SURROUNDINGS LITSUPE HYSICAL ACTIVITY	
THE MAIL HAVE A SETUPER 1700A	FAMILY RELIGION CHED TO YOUR IRT, AND YOU : LISTS, YOU MAY JET IME BY	EXAMPL

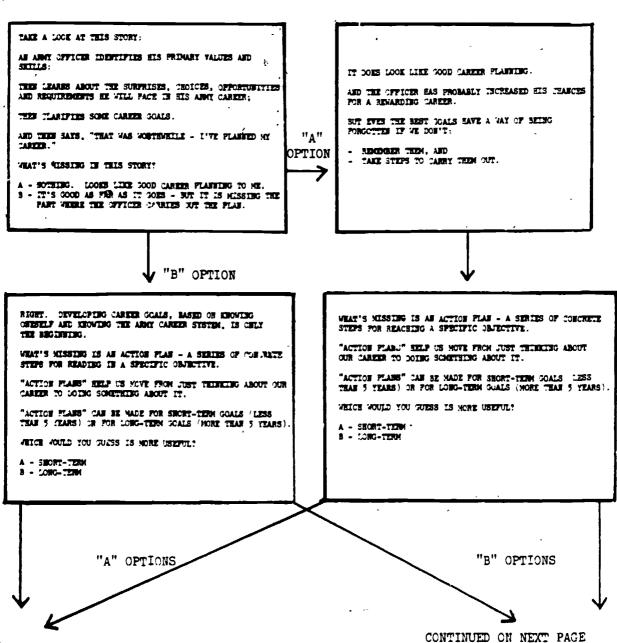
After this rating process, the user is asked to rank those values designated "most important" in order of relative importance and is offered suggestions about using this self-assessment in career planning.



Appendix G

Excerpt from CAREER STRATEGIES

The following frames are drawn from the final section of CAREER STRATEGIES. The user has, at this point in the module, played the "SCOR" game, examined questions of interest in the Career Strategies Data Base, revised and set career goals, and is now facing the task of combining these and previous sections of CCIPS into an integrated career Action Plan. This sequence appears on the screen:



"A" OPTIONS

RIGHT. ACTION PLANS ARE WORD INSTITUT FOR CHORT-TERM COALS. THERE ARE TWO PROBLEMS WITH ACTION PLANS FOR LONG-RANCE YOALS

AS OUR "SCOR" SAME SHOWED, THERE ARE SO WARY SUMPRISES, AND CHOICES, AND SO PORTH, THAT "LONG-TERM" ACTION FLANS ARE SUME TO SECONE DESCRIPT LONG SEPONE THE DOAL IS REACHED, AND

A "LONG-TERM" ACTION FLAN ACULD 36 TOO LONG TO BE MANAGEARLE - HUNDREDS OF CONCRETE STEPS NIGHT MAKE YOU FREE IT'S NOT APRIL DALING THE FIRST STEP.

SO BOW DO TOU PICK A SHORT TERM GOAL TO MAKE THIS "ACTION PLAN" FOF" MERE ARE SOME WAYS - CHOOSE DEE.

- LOOK AT DHE OF YOUR LONG-RANGE GOALS AND SEE HEAT YOU HAVE TO DO WITHIN THE HEAT 5 YEARS TO REACH IT. FICK A GOAL YOU KNOW YOU WUST REACH WITHIN 5 YEARS,
- 3 TE ZLSZ.

"B" OPTIONS

WEILE ACTICS PLANS MIGHT BE HELPFUL FOR REACHING LONG-TERM COALS, THERE ARE THE AMERICAN FROBLERS.

AS OUR "SCOR" TAME SHOWED, THERE ARE SO MANY SURFRISES, CHOICES, AND SO FORTH THAT "LONG-THEN" ACTION PLANS ARE TURE TO SECONE OBSCLETE LONG SEFORE THE GOAL IS REACTED.

A "LONG-TERM" ACTION PLAN WOULD BE TOO LONG TO BE MANAGEMENT - TUNDRINGS OF CONCRETE STEPS VIGET MAKE YOU FREE IT'S NOT WORTH TALLING THE FIRST STEP.

JE SUCCEST THAT ACTION PLANS ARE MOST USEFUL FOR "SHORT-

SO BOW DO YOU PICK A SHORT-TERM GOAL TO MAKE THIS "ACTION PLAS" FOR!

HERE ARE SOME WAYS - CHOOSE ONE.

- A LOOK AT DHE OF YOUR LONG-RANGE GOALS AND SEE WEAT YOU SAVE TO DO WITHIS THE NEXT 5 YEARS TO REACH IT. 5 - PICK A DOAL OU KNOW YOU MUST REACH JITHIN 5 YEARS.
- CR ELSE.

BOTH TACTICS BAVE WERIT. LOCKING AT YOUR LONG-RANGE TOALS BELFS MAKE SURE THAT YOUR PRESENT SEDEATORS MAYE A LONG-RANGE PAYOFF. BUT LOOKING AT YOUR SHORT-TERN "MUST'S" HELPS MAKE SURE YOU DON'T SEGLECT ANTIRLEG IN THE SHORT MUN. REGARDLESS OF YOUR SPECIFIC WEG-RANGE SCALS

THE IPSHOT IS 9000 Career planning means making more team the action plan.

SO NOW YOU SHOW THAT GOOD CAREER PLANNING MEANS

- IDENTIFYING VALUES AND SECULE,
- RECOGNIZING THE SURPRISES, DECICES, OFFICETURITIES AND REQUIREMENTS IN AN ARMY DARRER.
- TLARIFYING CAREER GOALS, AND
- MARTING ACTION PLANS FOR MEETING THOSE HOALS

CHE MORE THING - WHEN SHOULD YOU MAKE YOUR ACTION PLANS"

- A RIGHT HOW
- 3 DEPENDS OF WEAT HAPPENS WERE I MOSTITUS MY DAREER 1 MET, BOLD IT A MISUTE WHAT'T THIS "MUSITIFIES MY DAREER" BUSINESSO

At this point In the module, the concept of career monitoring is presented and related to action planning, and the user is offered directions for preating action plans using his or her own-data.

DISTRIBUTION

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1 US AHMY WESTERN COMMAND ATTN: APPE
1 HOUR ATTN: DAAG-ED
 HO. ICATA ATTN: ATCAT-OP-U
1 HQ. USMEPCOM ATTN: MEPCT
 HOUR RESEARCH AND STUULES OFC
 MILITARY UCCUPATIONAL DEVELOPMENT DIV DAPC-MSP-Q, RM 852C HOFFMAN BLDG 1
 HODA OFFICE OF THE CHIEF OF CHAPLAINS
 OASU (MRA AND L)
 AGOH
       ATTN: DAMO-ROR
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      ODCSPER
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  USA AVIATION SYSTEMS COMU ATTN: DHSAV-ZDR
 EQUAL OPPORTUNITY BRANCH ATTN: AFLT-PA-HR
1 USA ARRADCOM ATTN: ATFE-LU-AC
 HEADJUARTERS US MARINE CORPS ATTN: CODE MINT
 HEADWUARTERS. US MARINE CURPS ATTN: CODE MPI-20
 US AHMY EUROPE AND SEVENTH ARMY
1 1ST INFANTRY DIVISION AND FT. RILEY ATTN: AFZN-UPT-T
1 CHIEF . ATTITUDE . UPINION SURVEY DIVISION ATTN: ATZI-NCR-MA. HOFFMAN BLDG II
1 USA INTELLIGENCE AND SECURITY CUMMAND ATTN: IAOPS+TNG-T
 HO THADOC TECHNICAL LIBRARY
 MILITARY OCCUPATIONAL DEVELOPMENT DIRECTORATE ATTN: ATZI-NCR-MS-M, RM 3N33 HUFFMAR BLDG II
 DATA ANALYSIS UPVISION ATTN: ATZI-NCR-MD. HOFFMAN BLDG II
 USA MILPERCEN ATTN: DAPC-POO-T
 USA URDNANCE + CHEMICAL CENTER AND SCHOOL
                                            ATTN: ATSL-DTC-P
 HODA ARMY FORCE MODERNIZATION COURDINATION OFFICE
       ATTN: DASG-PTB
 HQDA
1 123D USARCOM HESERVE CENTER
 US AHMY SOLDIEH SUPPORT CENTER ATTN: ATSG-HDD (DR: CAVINESS)
 USA FORCES COMMAND AFPR - DEPTY CHIEF OF STAFF FOR PERSONNEL
 DIRECTORATE OF TRAINING ATTN: ATZU-T
 DIRECTORATE OF COMBAT DEVELOPMENTS ATTN: ATZOOD
 HODAHCOM MARINE CORPS LIAISON OFC
 DEPARTMENT OF THE ARMY US ARMY INTELLIGENCE + SECURITY COMMAND
 ANNINTON ARMY DEPOT ORGANIZATIONAL EFFECTIVENESS
  ARTAIS ATTN: URCPM-TDS-TU
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  HODA. OCS STUDY OFFICE
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                         HUMAN RESOURCE MANAGEMENT DIVISION (OP-15)
                         HUMAN RESOURCE MGT AND PERSONAL AFFA'IRS DEPT
 DEPARTMENT OF THE NAVY HUMAN RESOURCE MGT AND PERSONAL AFFAIRS DEPT
 NAVAL MILITARY PERSONNEL CUMMANU (N-62)
 NAVA: MILITARY PERSONNEL COMMANU (N-61)
 NAVA: MILITARY PERSONNEL COMMAND (N-4)
 HUMAN RESOURCE HANAGEMENT LENTER
 HUMAN RESOURCE MANAGEMENT LENTER
 U.S. NAVY
            TRAINING ANALYSIS EVALUATION GROUP
 USACHEC ATTN: ATEC-EX-E HUMAN FACTORS
  ATTN: SM-ALC/DPCH
  INTEH-UNIV SEMINAR ON ARMED FORCES + SUC
 OASA (RDA) DEPUTY FUR SCIENCE AND TECHNOLOGY
 OFC UF NAVAL RESEARCH /
 AFHRI /LRT
 AFHRI /LRLG
  AIR FORCE HUMAN RESOURCES LAB ATTN: AFHRL/TSR
1 NAVY PERSONNEL H AND D CENTER /
                                              33
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1 NAVY PERSONNEL R AND D CENTER DIRECTOR OF PROGRAMS
1 NAVY PERSONNEL H AND D CENIER /
2 OFC UF NAVAL RESEARCH PENSONNEL AND THAINING MESEARCH PROGRAMS
 NAVAI PERSONNEL R + D CENTER
 OFC OF NAVAL ROCH ORGANIZATIONAL EFFECTIVENESS PRO-
 MCFANN-GRAY + ASSOCIATES, INC. /
 NAVAL AERUSPACE MEDICAL RSCH LAB AIRBURNE RANGER RESEARCH
 DEPT. OF NATIONAL DEFENCE DEFENCE AND CIVIL INSTITUTE OF ENVIR MED
 NAVAL AEROSPACE MEDICAL RSCH LAB AEROSPACE PSYCHOLOGY DEPARTMENT
1 USA TRADOC SYSTEMS ANALYSIS ACTIVITY
                                       ATTN: ATAA-TCA
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